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From: Commander, Naval Shipyard, San Francisco
To: Chief of the Bureau of Ships (Code 400-689)
Chief of the Bureau of Medicine and Surgery (Code 74)
Chief of the Bureau of Aeronautics (Code AE45)
Chief of the Bureau of Yards and Docks (Code D4)
Subj: Monthly Progress Report of Radiation Laboratory for Month of February 1948; Submission of
Ref: (a) BuShips-BuMed SECRET ltr S99 BuShips ser. 005800, BuMed ser. 005001 of 18 February 1947.
Encl: (A) Radiation Laboratory Administrative Progress Report for Month of February 1948 (Confidential)
(B) Radiation Laboratory Technical Progress Report for Month of February 1948 (Secret)
(C) Radiation Laboratory Radiological Safety Progress Report for Month of February 1948 (Confidential)

1. Enclosures (A), (B) and (C), reporting progress of the Radiation Laboratory for the month of February 1948 are submitted herewith in compliance with reference (a).

Philip Lemler
PHILIP LEMLER

RADIATION LABORATORY
San Francisco Naval Shipyard
San Francisco, California

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Radiation Laboratory Administrative Progress Report for February 1948.

A. PERSONNEL

1. The following personnel were added to the laboratory rolls during the month:

(a) Professional

Dr. William H Sullivan	Technical Director, P-8
Mr. George E. Koch	Scientific Research Administrator P-2 Physicist

(b) Non-professional

Mr. Robert C. Tartaul	CAF-9 Administrative Assistant
Mr. Ralph L. Brown	SP-7 Engineering Aide (Electronics)
Mr. John S. Denham	SP-7 Engineering Aide (Electronics)
Mrs. Mary C. Recats	CAF-3 Clerk-stenographer

2. Miss Elizabeth J. Polentz, P-2 Biologist, resigned.

3. No new positions were allocated to the laboratory during the month.

4. Scientific personnel who have accepted employment together with dates on which they are expected to enter on duty are as follows:

Dr. Donald J. Kinseldorf	P-3 Biologist	15 June
Dr. Claude R. Schwob	P-6 Chemist	15 March
Dr. Nathan E. Ballou	P-5 Chemist	1 March
Mr. Harvey F. Matthiesen	P-4 Chemist	5 April
Mr. Henry F. Hunter	P-2 Math. Physicist	3 March

It is contemplated that Dr. Schwob will be assigned to the position of Chief Chemist as stated in last month's report. Dr. Ballou has been assigned to the Basic Chemistry Section as well as to head up the Radiochemical Procedures Training Section. Mr. Matthiesen will head up the Analytical Section in the Chemistry Division. Mr. Henry Hunter will work on aspects of several problem assignments requiring extensive theoretical calculations.

5. Offers of employment to scientific personnel which are outstanding are as follows:

Mr. Abraham Ottenberg	P-1 Chemist
Miss Ruth Kornblum	P-2 Biologist
Miss Elizabeth Wallerstein	P-2 Biologist
Dr. Leon A. Sapirstein	P-5 Biologist

(ENCLOSURE A)

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6. Scientific personnel under active consideration and at the grades indicated are as follows:

Dr. Raymond W. Stoughton	P-6 Chemist
Dr. Lloyd R. Zumwalt	P-6 Chemist
Dr. Eugene Roberts	P-5 Biologist
Dr. Manual P. Morales	P-5 Biologist
Mr. Abel Dahan, Jr.	P-4 Chemist
Mr. Rex W. Kennedy	P-3 Physicist
Dr. Orville H. Miller	P-3 Biologist

In addition to the above list there are a dozen or so other candidates who are under less active consideration.

7. As of 1 March 1948, the on board strength of the laboratory was as follows:

64 Civilians (professional and non-professional)
13 Officers (Navy)
18 Enlisted (Navy)

The detailed breakdown of all personnel assigned to the laboratory as of 24 February was forwarded to the Bureau.

At the present time the increase of professional personnel is satisfactory except in the Biological-Medical Division and follows the completion of necessary facilities. However, it is apparent that proportionate increases in the clerical staff are necessary since the workload considerably exceeds the capacity of the clerical personnel currently on board.

8. The current civilian personnel ceiling in the laboratory is seventy-five. It is expected that this will be increased to eighty-three as of 1 June and ninety-one as of 1 July. It is estimated, also, that the maximum capacity of the current and planned facilities will not accommodate in excess of one hundred-twenty-five civilian personnel without overcrowding until Bldg. 351 is occupied.

B. FACILITIES AND FUNDS

1. Work orders were issued for necessary alterations to fit the assigned spaces in Bldg. 520 (Dental Clinic) for occupancy by administrative offices of the Radiation Laboratory and work commenced during the month. The major remaining item to be processed is the extension of the security fence. It is believed, however, that at least a portion of the allocated space can be occupied before the fence is completed and thus relieve some of the crowding in Bldg. 506. It is anticipated that the complete move will take place early in April.

2. Work proceeded at an increased pace during the month on the planning for Bldg. 351 alterations. The general layout plans for all floors were submitted to the Public Works Department for architectural studies. The only layout not completed is that for the "hot" laboratory annex which will require some further study and investigation before requirements can be defined adequately. It is quite likely that some rearrangements of the layouts submitted will be required in order to make them architecturally

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feasible. Meanwhile Mr. D. M. Mastick, Chemist P-4, has been assigned to the task of acting as technical adviser to Public Works in questions involving building and collateral requirements peculiar to the handling of radioactive materials. Mr. Mastick will be assisted part time by several other qualified personnel in the laboratory.

3. Temporary facilities plans and estimates were completed during the month for the decontamination testing laboratory, the radiochemistry training laboratory, the health physics laboratory modifications and the first aid room all in Bldg. 506. Work is expected to commence on all of these facilities during March. Meanwhile all work except installation of the animal quarters air conditioning unit, final painting and miscellaneous clean up were accomplished in Bldg. 507. The Radiological Health Officer and Clinical Examining group, Photodosimetry, Supply, Medical Stores and a portion of Health Physics moved to that building.

4. Limited glass blowing facilities were set up in Bldg. 510 and were put in operation. Plans were prepared for the addition of further facilities to this shop to complete requirements to support the program and the installations are expected to be completed by 1 April 1948. The porch on the north end of this building has also been enclosed to provide a work space for the carpenter who is obtained from the Shipyard on a job order basis to accomplish miscellaneous wood working.

5. The Bureau of Medicine and Surgery project for \$50,000 originally assigned object classification 079 has been extended to include classifications 089 and 015. This change will make possible the completion of the temporary facilities schedule as laid out up to 1 July 1948. Completion of this schedule, as mentioned previously, will provide in the main the laboratory facilities expected to be available until Bldg. 351 is occupied (about two years hence).

G. SECURITY

1. Atomic Energy Commission "Q" clearances were received during the month for the following personnel assigned to or associated with the laboratory:

Mrs. Mary L. Andrews	Clerk-Typist CAF-3
Miss Ethelyn Fusselle	Chemist P-1
Mrs. Catherine L. Montgomery	Clerk-Steno CAF-4
Mr. Arthur F. Owings	Chemist P-2
Mr. F. Allan Sabransky	Chief Clerk CAF-6
Mr. Justin J. Shapiro	Biologist P-3
Dr. W. A. Shelberg	Chemist P-4
Mr. A. B. Willoughby	Physicist P-1
Capt. C. J. Cater, USN	Production Officer

It is highly important that these clearances be received since it will be required in order to comply with AEC instructions that all of Bldg. 506 become a restricted area as soon as SF materials and dissolver solutions are received, and that all persons having regular access to the building be cleared for access to restricted data.

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2. Information received from the AEC indicated that all necessary information for clearance to receive of materials and dissolver solutions had not yet been received. Statements concerning the procedures and facilities for safety, personnel protection, security, usage, accountability and disposal are required. Consequently, conferences were held with representatives of AEC Berkeley Security, Information and Materials and Health Physics Divisions to discuss these matters further. Subsequent to the conferences, measures were taken to prepare the necessary statements which it is believed will fulfill the requirements for release of shipments of the requested radioactive materials.

3. Special identification badges have been procured for all laboratory personnel and a contract was let for the combination identification badge and film badge holders to be issued. Also, orders were placed for special visitors' cards to conform to the practice used by AEC.

D. ORGANIZATION AND ADMINISTRATION

1. A functional organization chart for the laboratory was prepared during the month for incorporation in the overall shipyard functional organization chart. Copies of this chart are not as yet available but will be forwarded to the addressees for information when issues are received.

2. A budget control system for the laboratory is recognized as a necessity for purposes of control of funds and anticipation of requirements. The necessary features were studied during the month and preliminary steps taken to place the system in effect commencing with the fourth quarter of fiscal 1948.

E. CONSULTANTS AND CONTACTS

1. From time to time during the period 3 February to 12 February the following personnel of Joint Task Force Seven took miscellaneous photographs and moving pictures in the laboratory and vicinity for the purpose of preparing training films for Radiological safety: CPhM George E. Smith and W. R. Burdette, T/Sgt. E. Stroud, and Sgts N. B. Bond and L. E. Barry.

2. On 2 and 24 February, Mr. Russell H. Ball, Chief of the Materials and Information Branch, AEC Berkeley Area visited the laboratory to transfer restricted data documents and discuss relations with AEC.

3. On 10 February, Mr. J. E. Boucher, of the Security Division AEC Berkeley, visited the laboratory to discuss arrangements for security in Bldg. 520.

4. Lt. Comdr. R. A. Conard, VC, USN, BuMed Projects Officer, left for Washington, D. C., on 16 February to deliver talks on radiological safety and to visit the Bureau of Medicine and Surgery and the Naval Medical Research Institute.

5. Dr. G. W. Holmes and Mr. H. H. Bowen of the Naval Air Experimental Station, Philadelphia, arrived at the laboratory on 16 February for a three day discussion of procedures to be followed and liaison arrangements in connection with the project studies on decontamination of aircraft materials.

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5. Comdr. E. J. Hoffman, USN, and Lt. Comdr. S. G. Campbell, USN, of the Bureau of Ships visited the laboratory on 16 February enroute to special operations assignments.
7. Mr. D. F. Mastick left for Ames, Iowa, on 17 February to study building designs for the Atomic Research Institute. He then proceeded to Chicago to attend AEC Radiochemical Laboratory Design Conferences on 23 and 24 February. Dr. W. W. Hayes left 20 February to attend the Chicago conferences, also.
8. On 18 February, Col. S. M. Karrick, Army Engineer Corps, U. S. Army, San Francisco District Engineer for the U. S. Army Corps of Engineers visited the laboratory to discuss the duties and responsibilities for the proposed Army Engineer Corps Projects Officer in the laboratory and to determine the required qualifications of the person to fill this billet.
9. On 17 February, Lt. E. C. Vicars departed for temporary duty with Joint Task Force Seven.
10. CPM J. W. Caldwell and PM3/c Fred Ashler left on 18 February and Lt. Comdr. R. K. Skow, MSC, and Lt. C.P. Carlson, MC, on 20 February to participate in Bureau of Medicine and Surgery radiological safety exhibits at New Orleans.
11. On 24 February CPM S. R. Johas departed for temporary duty with Joint Task Force Seven.
12. The Surgeons General of the Army, Navy and Air Force together with the committee for study of the unification of the Armed Forces medical services inspected the laboratory briefly on 26 February. Included in the party were Maj. Gen. Grow; Rear Adm. Swenson, Boone, Albright, Groesbeck, Rault and Pugh; Cols. Robinson, Powell, Ogle, Duke, Peters, Gorvey and Phillips; Capts. (Navy) Logue, Best, Montgomery, Lemler, Churchill and Carbiener; Comdr. Bigelow; Lt. Comdr. Nelson and Capt. (Army) Gully.
13. Lt. R. A. Laughlin, CEC, USN, Bureau Yards and Docks Projects Officer commenced a six weeks' training course at the Treasure Island Radiological Safety School on 23 February.

Naval Radiation Laboratory Medical Monthly Progress Report for February 1943.

I. SUMMARY OF ACTIVITIES OF THE RADIOLOGICAL HEALTH SECTION

(A) Radiological Safety

1. Physical Examinations

(a) 31 initial physical examinations and 50 recheck examinations were made by the Radiological Health Officer at this activity. 129 physical examination reports and x-rays were forwarded to the Bureau of Medicine and Surgery.

2. Inspections

(a) Weekly inspections of all radiological facilities were conducted from the standpoint of radiological safety. There were no major discrepancies noted.

3. Facilities

(a) The remodelling of the Decontamination Center (Bldg. 507) is continuing on the second deck.

4. Lectures

(a) Radiological Safety Lectures have been given to shipyard personnel who are directly concerned with shipyard radiological hazards.

(B) Dosimetry

1. 361 film badges were checked. No exposures in excess of tolerance to gamma or beta radiation were noted.

(C) Clinical Radiochemistry

1. Routine methods of plutonium extraction were checked for fractional losses in procedure.

2. Initial work was undertaken on spectrophotometric analyses of amino acid solutions.

3. Experiments to determine optimum amounts of liver and bone for samples were made and comparisons of results in dry and wet ashing techniques undertaken.

(D) Training

1. University extension courses are being offered to both naval and civilian personnel at Navy Department expense in subjects relating to their particular field of work.

2. Weekly seminars given by staff members in their individual fields are open for attendance by all laboratory personnel.

(ENCLOSURE C)